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**Imagery analysis report**

## **Iraq/Iran Military Summary**

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## IRAQ/IRAN MILITARY SUMMARY

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1. (S/D) This report updates the most recent<sup>1</sup> in a series of imagery-derived reports on the Iraq/Iran conflict and covers the period [ ] This report discusses deployed ground forces in the forward area, rear garrison units (Figure 1), airfields, naval bases, commercial shipping, POL facilities, and related activity in South Yemen. Military unit designators and subordination (where used) are derived from collateral sources.<sup>2</sup> Acronyms and abbreviations are defined in a glossary at the end of the report. Additional reports will be issued as the situation changes.

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## OVERVIEW

2. (S/D) Imagery of the forward areas of conflict during the reporting period showed the Iranian forces still in control of Abadan, Ahvaz, Dezful, and Pol-E Zahab. Iraqi and Iranian positions in these areas remained relatively unchanged.

3. (S/D) Four Iraqi and three Iranian rear area garrisons/facilities were imaged during the reporting period. The Iraqi 8th Mechanized Infantry Brigade remained out of garrison, and a tank company and 100 APC departed another installation in the Baghdad area. Major elements of the three brigades in the Iranian 77th Infantry Division stationed in northeastern Iran had departed their respective garrisons by [ ] Also, evidence of a possible callup of civilians for military duty and/or the possible requisition of civilian vehicles for military functions was observed in three areas of Iran.

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4. (S/D) Four Iraqi and 15 Iranian airfields were imaged during the reporting period. Disruptive paint schemes were observed at Rasheed Airfield in Iraq. Continued dispersal of Iranian helicopters in the Tehran area was also observed. Additionally, a Rapier SAM system was newly deployed at one of major airfields in Tehran.

5. (S/D) One Iraqi and two Iranian naval facilities were imaged.

6. (S/D) Eleven Iraqi and five Iranian POL-related facilities were imaged. New damage was observed at one Iraqi facility.

7. (S/D) Related activity included the identification of captured Iranian equipment in Baghdad, Iraq, and continued construction of metal screens and earthen berms at the Baghdad Nuclear Research Center. In addition, a ship with military deck cargo, possibly destined for Iraq, was seen in South Yemen.

## GROUND FORCE ACTIVITY

## Iraq/Iran Forward Areas

## Khorramshahr/Abadan Area

8. (S/D) The area occupied by Iraqi forces east of the Karun River and north of Abadan on [ ] was obscured by heavy haze on [ ] (Figure 2). On the west bank of the Shatt Al Arab in Iraq, four FA batteries and two AA batteries were deployed 7 nm northwest of Abadan between [ ] Additionally, one FA battery and two AA batteries were newly deployed 10 nm northwest of Abadan during the same time period. One FA battery and one FA battalion remained deployed 4 nm southwest and 12 nm west of Abadan, respectively, on [ ] The area in which Iraqi forces were previously observed north of Khorramshahr was not imaged.

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9. (S/D) The only Iranian forces/equipment observed through haze in the Abadan area consisted of seven occupied ZU-23 AA positions deployed around Abadan International Airfield [ ] on [ ]

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## Ahvaz Area

10. (S/D) Iraqi and Iranian force deployments west and southwest of the city of Ahvaz were either cloud covered or not imaged on [ ] (Figure 3).

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11. (S/D) Northwest of Ahvaz, elements of two Iranian 175mm SPG batteries were deployed 3 nm northwest of Hamideyeh Barracks and Brigade Headquarters Dash and Emishan [ ] on [ ] these guns were not present on [ ] Two field logistics supply points were observed, one 3 nm northeast and one 3 nm southeast of the barracks area. The northeastern supply point consisted of numerous small tents and vehicles dispersed throughout shallow ravines. The southeastern supply point contained six shallow revetments and five small, newly constructed, earth-covered bunkers in the side of a ridge. Numerous stacks of crates were present.

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12. (S/D) Elements of the armor brigade housed at Hamideyeh Barracks remained out of garrison on [ ] Seventeen tanks and at least 58 APC were dispersed throughout the installation.

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13. (S/D) In Ahvaz, defensive trenches had been dug around at least two separate areas in the center of the city since the beginning of hostilities. The ZSU-57/2 SPAA battery deployed just north of the city on [ ] was no longer present. Additionally, a battery of ZU-23 AA was deployed around the

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Ahvaz Gas Oil Separation and Pumping Station East [ ] and a battery of ZSU-57/2 was deployed around Ahvaz Airfield [ ]

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14. (S/D) No change was seen at Ahvaz Barracks Storage Depot Brigade and Division Headquarters [ ] However, partial coverage of the probable associated engineering unit housed 3.2 nm north of the barracks area revealed that elements of one PMP company may have departed between [ ] Several BMK-90 powerboats, GSP, and PMP sections were dispersed around this area.

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15. (S/D) Ahvaz Hawk Site 10 [ ] remained unoccupied on [ ]

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**Dezful Area**

16. (S/D) The combat area observed 13.5 nm west of Dezful on [ ] was not imaged during this reporting period (Figure 4). The Iraqi force remained 14.5 nm southwest of Dezful and just west of Shush on [ ] This force consisted of two tank battalions and two mechanized infantry battalions. Additionally, major elements of an FA battalion were observed 7 nm west of Shush, and an FA battery was 8 nm west-northwest of Shush.

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17. (S/D) Iranian forces deployed within 8 nm northwest and 5 nm west of Dezful on [ ] consisted of three tank companies, one SP gun battery, and one FA battery. A probable CP consisting of numerous trucks and tents, as well as numerous net- and canvas-covered vehicles/equipment, remained in ravines immediately northwest of the city. Also, a probable mobile AD unit was still just west of Dezful. An additional Iranian tank force of at least battalion size (possibly elements of a brigade), a mechanized infantry company, and numerous support vehicles remained positioned 10 nm north of Dezful. West of this unit and 13.5 nm northwest of Dezful, the field logistics depot identified on [ ] remained.

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18. (S/D) Equipment present in Dezful Barracks and Brigade Headquarters [ ] appeared to be unchanged from [ ]

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19. (S/D) Heavy damage was observed in one block of a residential area in Dezful on [ ] (Figure 5). A large crater, numerous destroyed houses, and a large amount of debris were evident. This damage was not present on [ ] Press reports indicate that FROG-7 rockets have been launched against Dezful as recently as [ ]

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**Qasr-E Shirin Area**

20. (S/D) Elements of an Iraqi mechanized infantry brigade supported by four artillery battalions and one SA-6 battalion remained approximately 3 nm west and northwest of Pol-E Zahab on [ ] (Figure 6). Opposing Iranian forces in the vicinity consisted of one tank company.

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21. (S/D) A second Iraqi force was in a valley approximately 4 nm southeast of Qasr-E Shirin. This force consisted of one tank battalion, two tank companies, and a mechanized infantry platoon supported by one SA-6 battalion. An Iraqi FA battalion remained deployed along a valley road leading southeast to Gilan-E Gharb, approximately 17 nm southeast of Qasr-E Shirin.

22. (S/D) Iranian forces remained deployed in a valley adjacent to the one occupied by Iraqi forces. This Iranian force consisted of one tank company in an area 7 nm east-southeast of Pol-E Zahab. Also two tank platoons were deployed approximately 9 nm southeast of the city. An M107 SP gun battery was on a ridgeline overlooking the valley 8 nm east-southeast of Pol-E Zahab.

23. (S/D) Sar-E Pol-E Zahab Barracks and Brigade Headquarters and Depot [ ] immediately south of the deployed forces around Pol-E Zahab, was observed on [ ] Elements of a mechanized infantry company (14 APC), an armored cavalry squadron (eight Scorpion tanks and six APC), and elements of a 155mm M109 SP gun battery (two guns) departed from this facility between [ ] (Elements of two tank battalions, 38 tanks; and two artillery battalions, nine 155mm M109 SP guns and ten 105mm FA guns, have been out of garrison since [ ] Forty tanks and 65 APC remained in garrison. Seven AB-214 helicopters were parked on or near the parade ground on [ ]

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**Sulaymaniyah Area**

24. (S/D) On [ ] a three-position AA site was observed on a hilltop at 35-31-18N 046-02-44E, and ten vehicles were seen in revetments at 35-37-09N 045-55-59E, 26.5 nm east of As Sulaymaniyah, on the Iraqi side of the border through heavy clouds.

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**Rear Areas****Iraq**

25. (S/D) The 8th Mechanized Infantry Brigade of the 3d Armor Division remained out of garrison on [ ] at Ar Ramadi Barracks and Brigade Headquarters [ ] approximately 50 nm west of Baghdad. Fifty revetments with stored materials had been constructed in the adjacent ammunition storage area since [ ]

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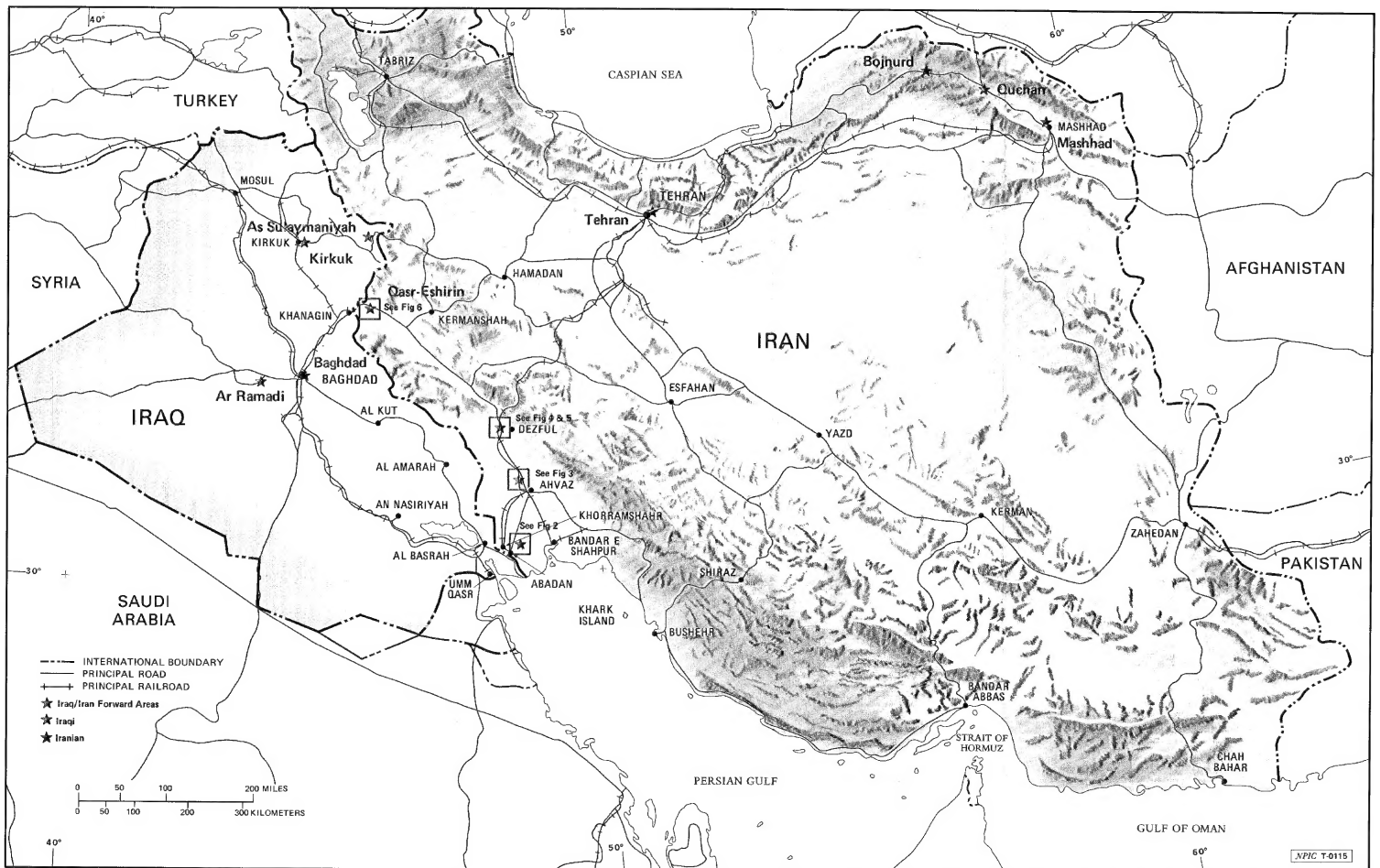


FIGURE 1. IRAQI/IRANIAN GROUND FORCES ACTIVITY

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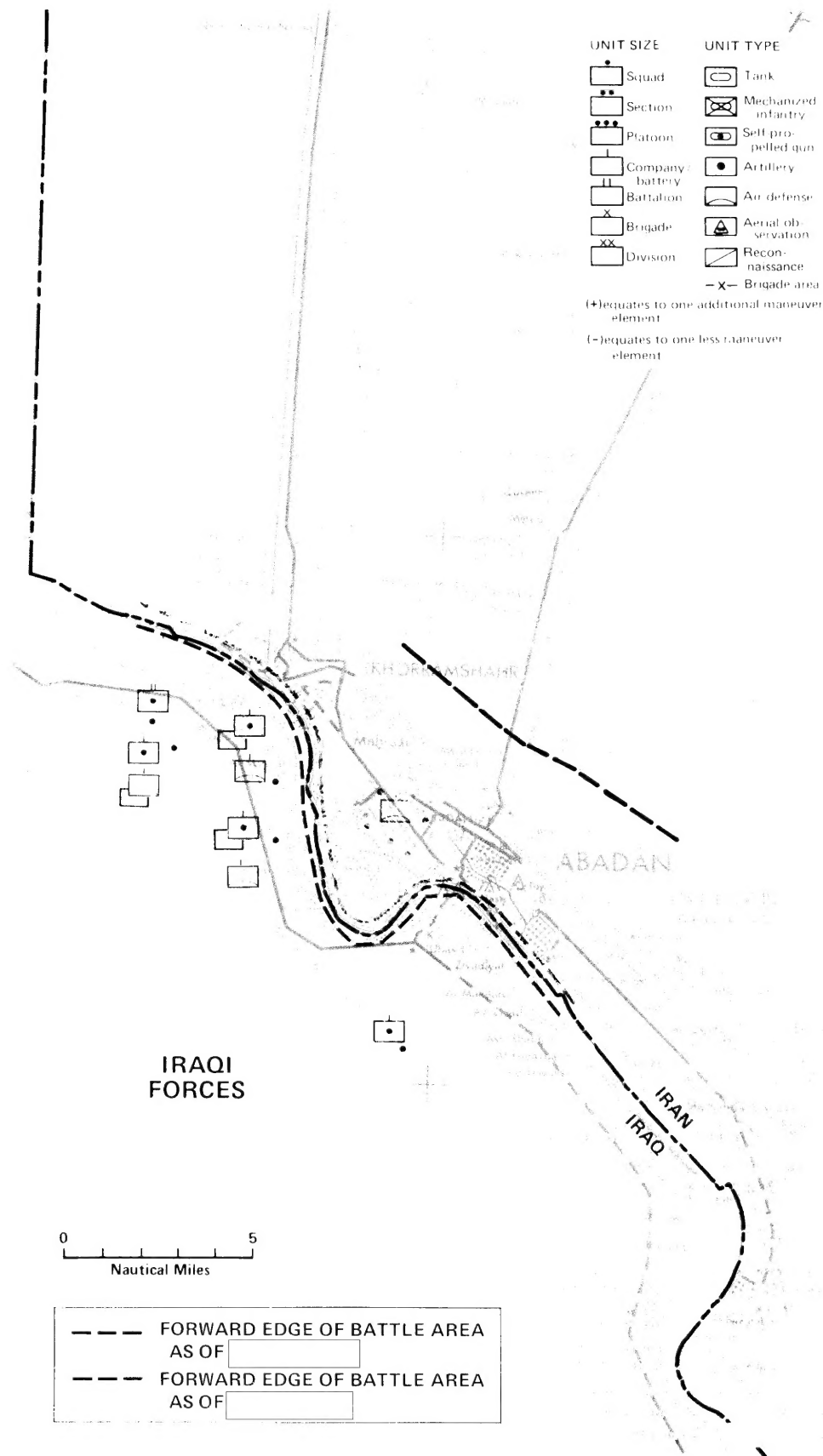


FIGURE 2 GROUND FORCES ACTIVITY, KHORRAMSHAHR/ABADAN AREA, IRAN, ON

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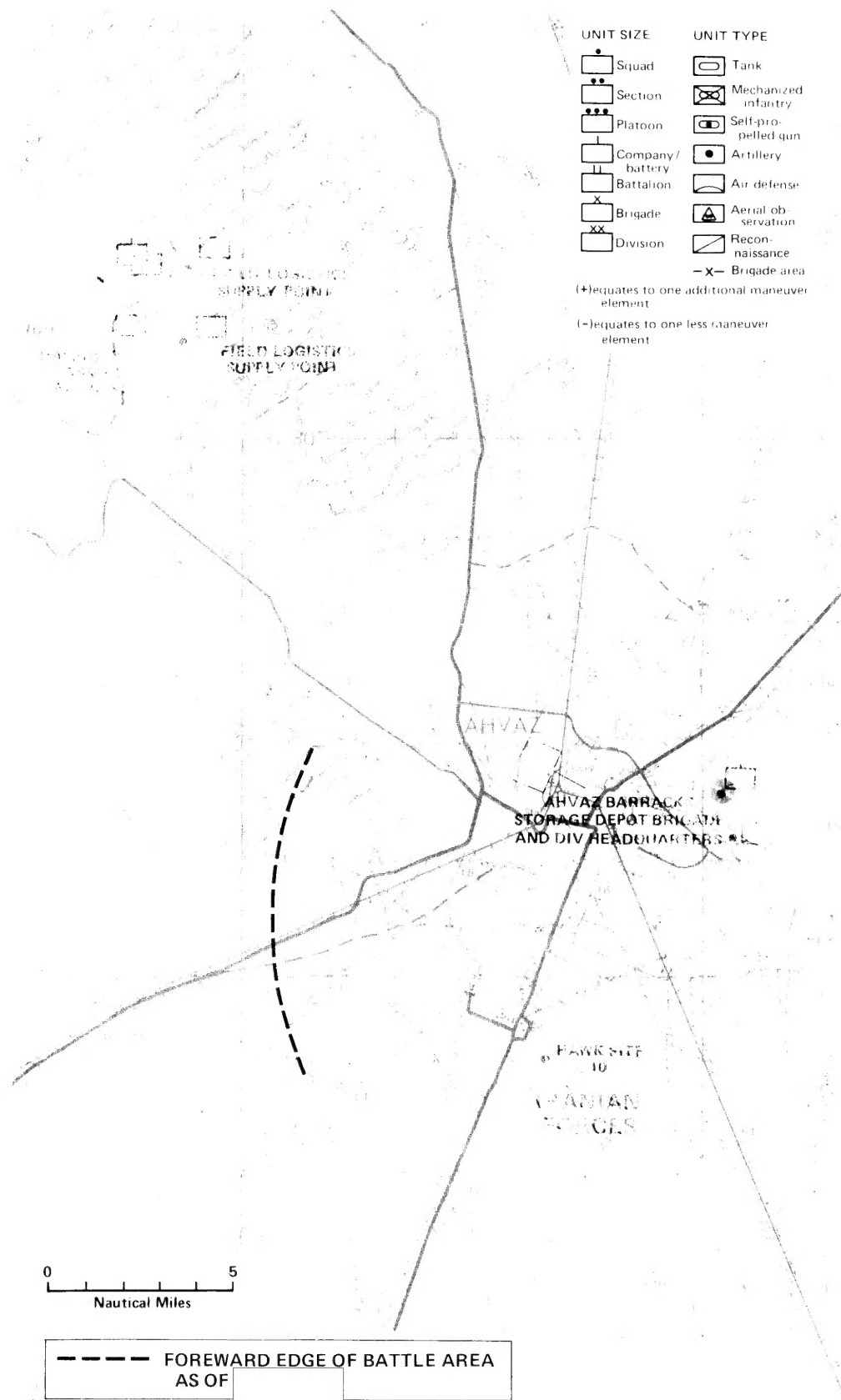


FIGURE 3. GROUND FORCES ACTIVITY, AHVAZ AREA, IRAN, ON

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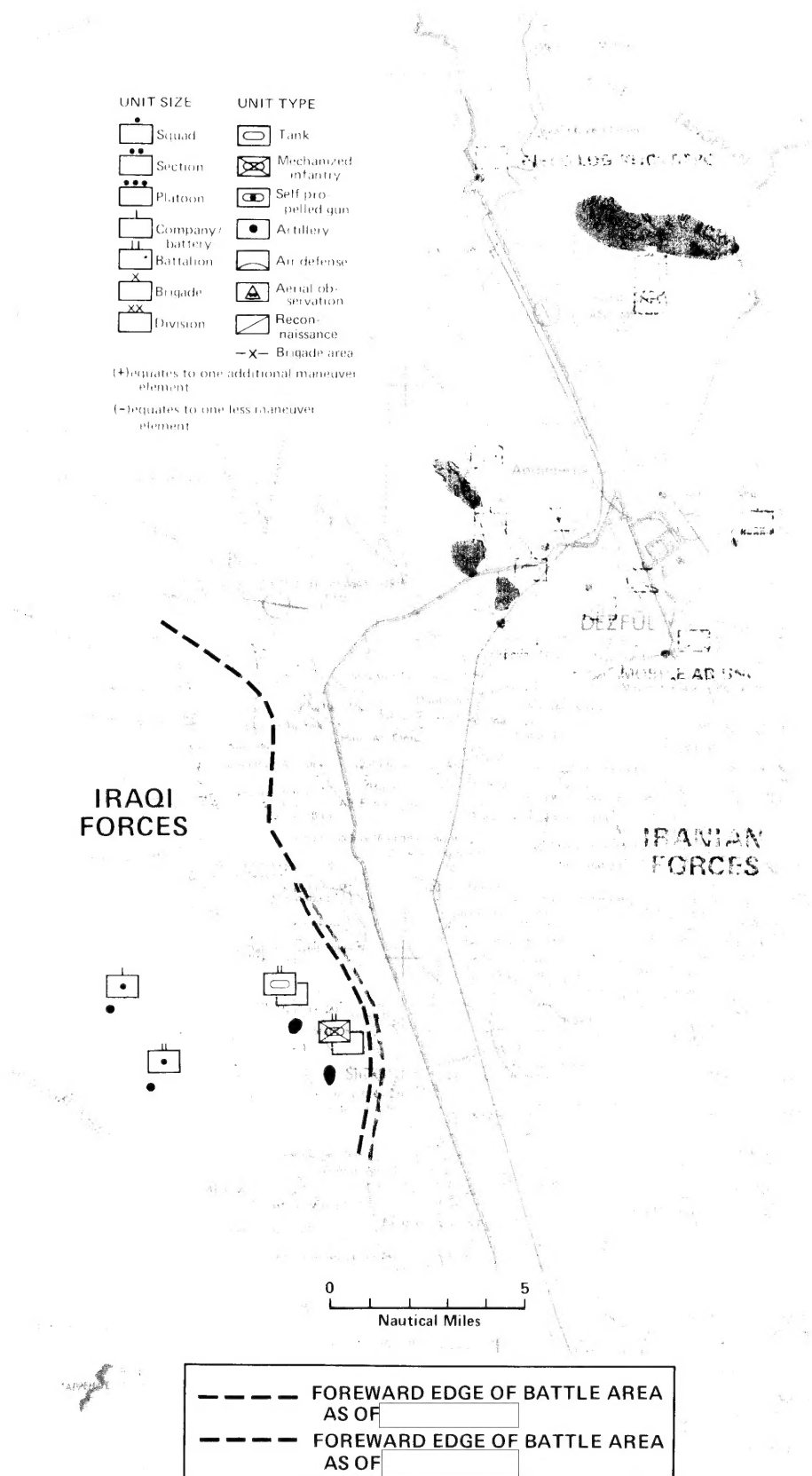


FIGURE 4. GROUND FORCES ACTIVITY, DEZFUL AREA, IRAN, ON [ ]

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26. (S/D) In the Baghdad area, at least one company of T-72 tanks, 70 BMP APC, and 30 BTR-60 APC had departed Baghdad Barracks School Corps Brigade Headquarter Deployment Rashd [ ] Additionally, nine van trucks appeared to be deployed operationally in the communications area.

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27. (S/D) Tanks remained deployed in and around the barracks area at Baghdad Army Post Palace Guard [ ] which is next to the Palace, on [ ]

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28. (S/D) In the Kirkuk area, one four-rail SA-3 launcher had been removed, and a FLAT FACE radar had been replaced by a SQUAT EYE radar at Kirkuk SA-3 SAM Site Northeast [ ] This site was newly identified on [ ]

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25X1**Iran**

29. (S/D) Major elements of the three brigades of the 77th Infantry Division, stationed along the USSR/Iran border in northeastern Iran, had left their respective garrisons at Quchan, Bojnurd, and Mashhad by [ ] Major elements of the infantry brigade and the artillery battalion at Quchan Barracks and Brigade Headquarters [ ] departed between [ ] 1980. Seventeen trucks were assembled near their usual parking area and might have been preparing to depart. An additional four trucks were observed in the ammunition storage area; approximately 100 trucks remained in garrison.

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30. (S/D) Major elements of two infantry battalions departed Bojnurd Barracks and Brigade Headquarters [ ] Thirteen trucks and 10 support vehicles were in convoy formation in the barracks area. A high level of personnel activity was evident in the artillery battalion area. Only nine FA guns and approximately 150 trucks remained in garrison. A mobile communications site was set up in the infantry battalion area.

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31. (S/D) Major elements of the infantry brigade at Mashhad Barracks Storage Depot Division and Brigade Headquarters [ ] were out of garrison on previous imagery of [ ] and remained absent on [ ]

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32. (S/D) Evidence of the possible callup of civilians for military duty and/or the possible requisition of civilian vehicles for military functions was observed in three areas in Iran on [ ]

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33. (S/D) A convey of approximately 125 sedans was forming in an open field adjacent to Tehran Barracks and Ordnance Depot Abbasabad [ ] (Figure 7).

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34. (S/D) Two buses and numerous personnel in formation were on the parade field at Quchan Barracks and Brigade Headquarters in northeastern Iran on [ ] Twenty-six civilian sedans were parked along a road inside the installation.

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35. (S/D) Approximately 350 trucks were parked around a soccer field near a hotel, approximately 3 nm northeast of Bandar Abbas Port Facilities Suru [ ] in southeastern Iran on [ ] (Figure 8). A line of people was assembled at a possible registration point near the hotel.

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**AIR ACTIVITY**

36. (S/D) No significant new damage was observed at any of the Iraqi or Iranian airfields; however, the runways remained blocked at five of the Iranian airfields (Figure 9 and Table 1).

**Iraq**

37. (S/D) Four Iraqi airfields were imaged between [ ] At Rasheed Airfield, a disruptive paint scheme had been applied to both ends of the runway, the taxiways leading to Alert hangarettes at both ends of the runway, and four parking aprons by [ ] (Figure 10). In addition, at least 26 aircraft were net covered.

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**Iran**

38. (S/D) Fifteen Iranian airfields were imaged between [ ] Six probable AB-214 and five probable Jet Ranger helicopters were observed near Karaj Airfield on [ ] (Figure 11). The helicopters were dispersed within an estate 2 nm east-northeast of the runway. At four of the airfields, helicopters were covered by nets.

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39. (S/D) The Rapier SAM system was deployed at Tehran/Doshan Tappeh Airfield for the first time between [ ] when one Rapier site was at the northern end of the airfield. Four ZU-23 AA sites around the airfield provided additional AD support. Aircraft observed on [ ] included three T-33, seven F-27, and one CH-47 and four AB-214 helicopters.

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40. (S/D) Rapiers have now been installed at all three major airfields of Tehran—Tehran/Mehrabad International, Tehran/Ghale Morghi, and now Tehran/Doshan Tappeh.

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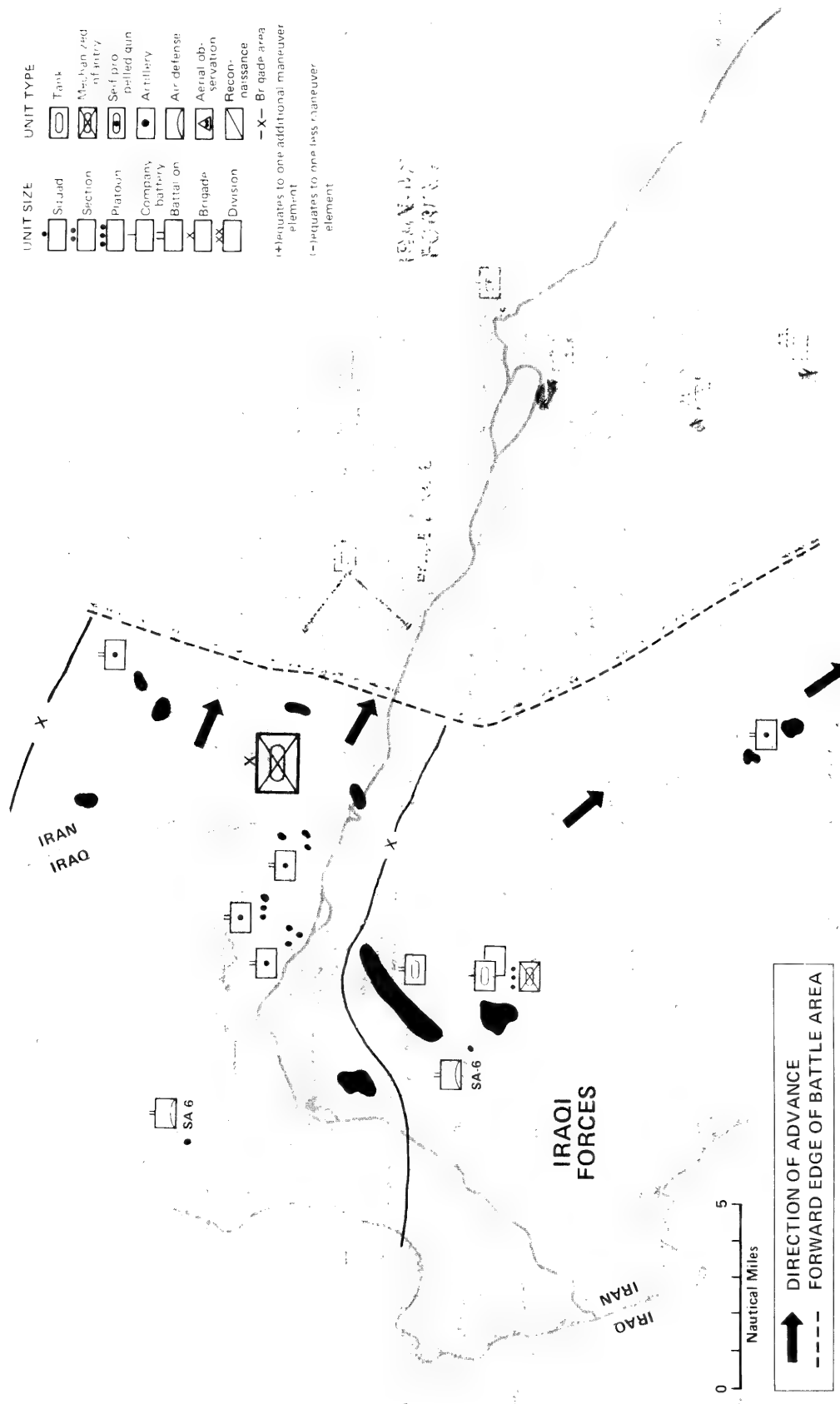


FIGURE 6. GROUND FORCES ACTIVITY IN THE QASR-E SHIRIN AREA, IRAN, ON

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**Table 1.**  
**Air Activity in Iraq and Iran**  
**(Items keyed to Figure 9)**

*This table in its entirety is classified SECRET//NOFORN*

Item	Installation/ BE No	Date of Coverage	AOB Present	Operational Status/Remarks
<b>Iraq</b>				
1	K-2 Airfield		3 Alouette 1 HHP	Not operational due to runway resurfacing; undamaged
2	Rasheed Airfield		2 FITTER 1 FLOGGER 26 FISHBED 8 Hawker/ Hunter 6 FAGOT/ FRESCO 14 jet Provost 10 Hip C 1 Alouette 12 FITTER 10 FISHBED 1 poss FISHBED 1 L-39 2 Wessex 3 FITTER 3 FISHBED 1 poss FISHBED None	Operational; undamaged; a disruptive paint scheme has been applied to the runway, taxiways leading to the Alert hangar and 4 parking aprons; at least 26 aircraft were net covered
3	Kirkuk Airfield		1 poss FISHBED 1 L-39 2 Wessex 3 FITTER 3 FISHBED 1 poss FISHBED None	Operational; no new damage
4	Hawr Halfayah Airfield		None	Operational; undamaged
<b>Iran</b>				
5	Marivan Airfield		None	Operational for light aircraft only; undamaged; west end of runway is blocked by 3 vehicles, objects
6	Vahdati AB Airfield		3 F-5 10 AB-214/AH-1 3 Jet Ranger 2 Ch-47	Operational; no new damage
7	Ahvaz Airfield		One small straight wing	Operational; no new damage; 4 ZSU-57/2 deployed around airfield; 1 C-130 & 2 F-27 seen on [ ] no longer present
8	Ahvaz Airfield North		None	Operational; undamaged
9	Abadan International Airfield		3 F-27	Operational; no new damage; both left & right runways remain blocked by vehicles and/or equipment; 7 ZU-23 sites were deployed around airfield
10	Manzariveh Airfield		None	Operational; undamaged
11	Karaj Airfield		6 prob AB-214 5 prob Jet Ranger	Operational; undamaged; helicopters were dispersed around 3 houses ENE of the runway, at least 4 of the helicopters were net covered
12	Noshahr Airfield		1 prob FALCON 1 prob Aero Com mander	Operational; undamaged; partial coverage
13	Tehran Doshan Lappeh Airfield		3 T-33 7 F-274 1 CH-47 AB-214	Operational; undamaged; graded-earth runway remains blocked by 7 vehicles; a Rapiet site has been deployed since [ ]
14	Semnan New Airfield		None	Operational; undamaged; partial coverage
15	Bushehr Airfield		1 C-130 1 FALCON 1 AB-214	Operational; no new damage; approx 30 personnel were to the rear of the C-130
16	Bandar Abbas Nas Airfield		None	Operational; undamaged; both runways blocked by 1 vehicle each; 2 AA sites are occupied
17	Bandar Abbas Inter- national Airfield		1 P-3 2 F-4 1 AB-214	Operational; no new damage; 3 AA sites were occupied in vicinity of airfield
18	Kerman Airfield		2 A-300 1 707 3 727 9 UH-1 type helicopters None	Operational; undamaged; A-300 and 707 are not usually seen here
19	Jask Airfield		None	Operational; undamaged; runway remains blocked by 6 vehicles and/or pieces of equipment; 35mm AA sites & 4 ZU-23 sites remained occupied

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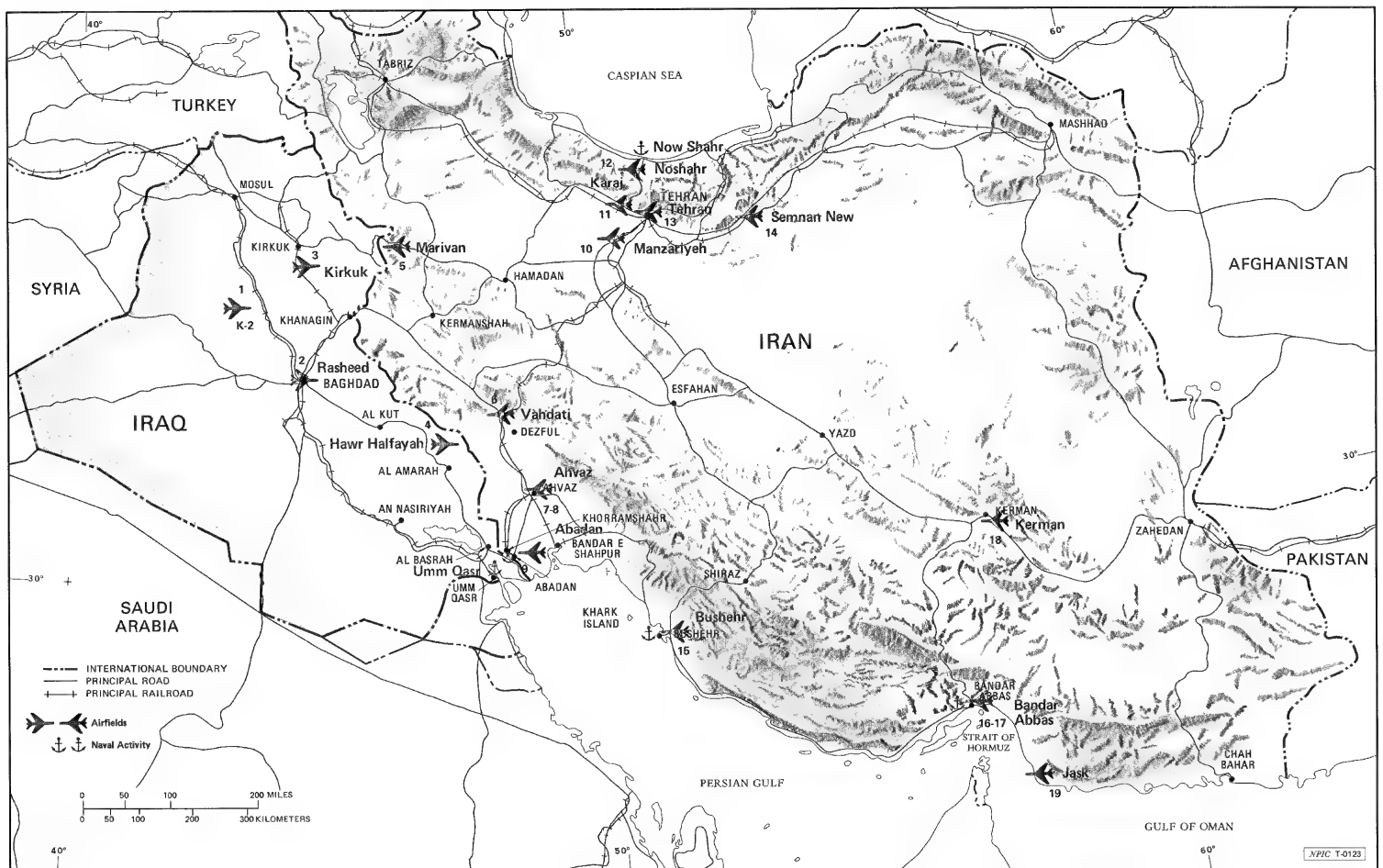


FIGURE 9. IRAQI/IRANIAN AIR AND NAVAL FACILITIES

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**Table 2.**  
**POL Facilities in Iraq and Iran**  
**(Items keyed to Figure 12)**

*This table and its contents are classified SECRET//NOFORN*

Item	Installation Name/ BE Number	Date of Coverage	Damage	Operational Status/Remarks	
<b>Iraq</b>					
1	Bazurjan Gas Oil Separation Plant No. 2		None		25X1
2	Bazurjan Gas Oil Separation Plant and Oilfield Plant Complex		New/old	Smoke obscured much of fac; 1 large POL tank destroyed; 2 med. POL tanks destroyed & on fire; pipeline damaged in 2 areas; 1 quonset hut in support area partially destroyed, prior to war capacity of approx. 1,038,000 barrels; current capacity approx. 701,200 barrels	25X1
3	Baghdad Petroleum Refinery Ad Dawrah		None		25X1
4	Bayji K2 Petroleum Pumping and Storage Station		None	Earthen berm around 1 tank has been increased in height	25X1
5	Hanjira Degassing Station		None		25X1
6	Jabulur Degassing Station		None		25X1
7	Kirkuk Gas Absorption and Stabilization Plant North		None		25X1
8	Kirkuk Petroleum Refinery and Storage		None		25X1
9	Kirkuk Petroleum Storage Town		None		25X1
10	Mahawul Watersheds		Old	1 clarifying tank destroyed & 3 vertical tanks damaged	25X1
11	Qutan Degassing Station		None		25X1
<b>Iran</b>					
12	Abadan Petroleum Product Storage and Pumping Station Transfer Iran 1		Old	Smoke obscured part of fac; 40 POL storage tanks destroyed; 6 POL tanks damaged; 7 POL tanks burning; pipelines burning; original capacity 14,030,500 barrels & current capacity at most 9,660,500 barrels	25X1
13	Abadan Petroleum Refinery NIOC		Old	10 large vertical storage tanks & 5 POL tanks destroyed, 19 small vertical storage tanks damaged, 1 vertical tank destroyed; pipelines damaged; & 2 POL tanks burning; original capacity 16,000,000 barrels & current capacity at most 15,220,000 barrels	25X1
14	Ahvaz Gas Oil Separation and Pumping Station East		None	5 ZU-23 AA sites around fac	25X1
15	Ahvaz Petroleum Products Storage and Pumping Station Transfer Iran 2		None		25X1
16	Ganaveh Pipeline Valve Control Complex		None		25X1

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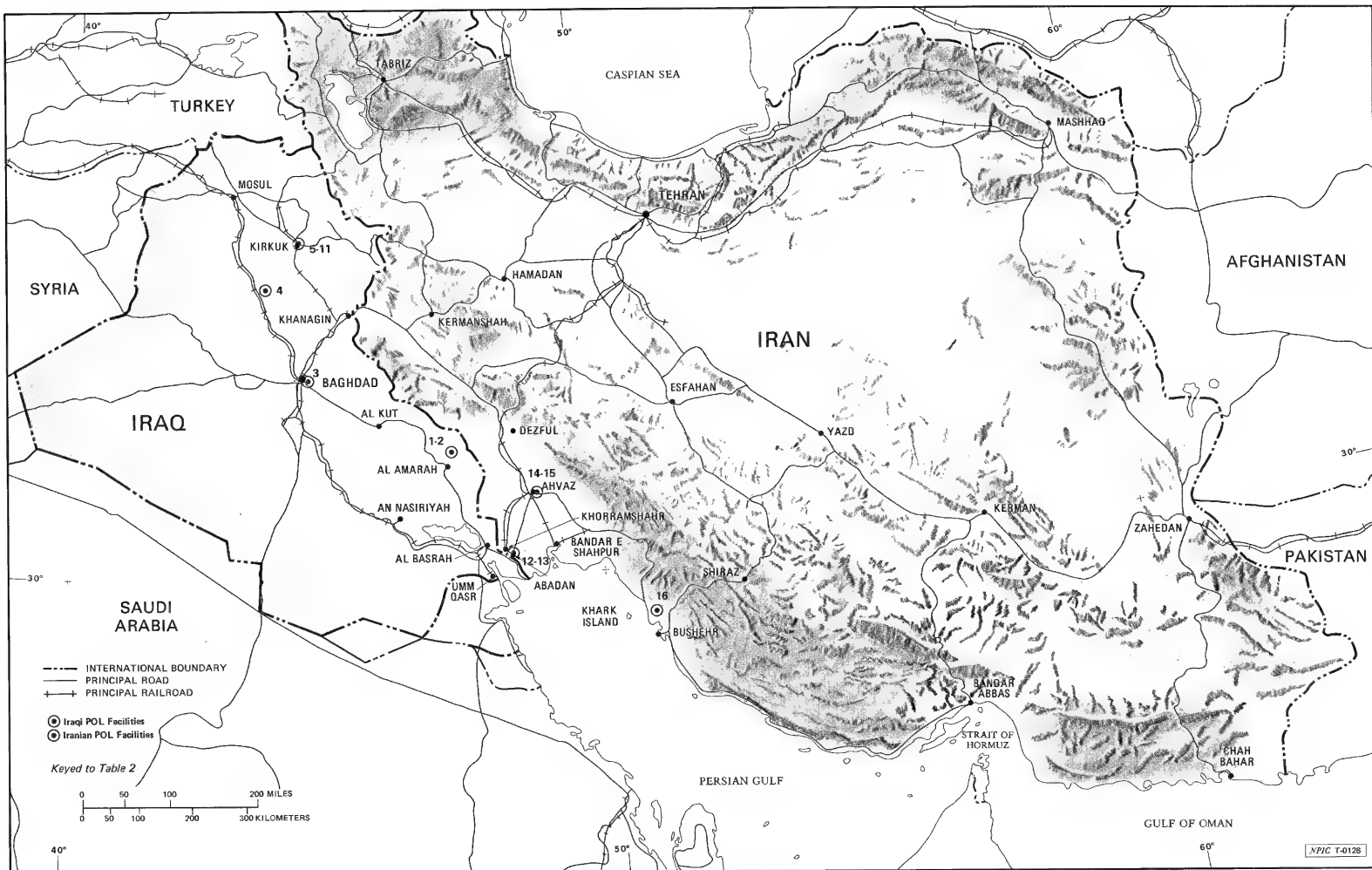


FIGURE 12. POL FACILITIES IN IRAQ AND IRAN

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**SECRET****NAVAL ACTIVITY**

41. (S/D) No battle damage was observed at Umm Qasr Naval Base [ ]  
 [ ] Naval vessels observed included one Osa PTG, one SO-1 PCS, and five P-6 PT. An additional Osa PTG was at Umm Qasr Port Facilities [ ]

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**Iran**

42. (S/D) One La Combattante-IIB PTG (Kamen) had arrived at Bushehr Naval Base [ ]  
 [ ] Vessels at the base on [ ] included two PF-103 PF, seven La Combattante-IIB PTG (Kamen), eight MK-III PB, one PBR, and one probable LCU.

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**Strait of Hormuz**

43. (S/D) Two Sumner DDG and one LCU arrived at Bandar Abbas Port Facilities Suru [ ]  
 [ ] and two La Combattante-IIB PTG (Kamen), two Wellington PACV, and one Kangan AWK departed from the port between [ ] (The Kangan AWK was observed in the Gulf, south of the harbor.) One PGM-71 PGM and one LCU had subsequently departed by [ ]  
 one PGM-71 PGM, one LCU, and one Kangan AWK had returned to port. Vessels in port on [ ] included one Battle DDG, two Sumner DDG, two Vosper MK-5 FFG (SAAM), two PGM-71 PGM, six MK-III PB, four PBR, one Hengham LST, three LCU, one Bandar Abbas AORL, one Kangan AWK, one Michaelangelo APB, one Amphion AR, and one ARD-T.

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44. (S/D) In addition to the reported naval activity, commercial ship activity was also observed at this port. Twelve merchant ships were in port, while two tankers and one merchant ship were in a holding area in the Gulf, south of the harbor, on [ ] one merchant ship which had been observed in the holding area entered the port. One of the two tankers arrived in the holding area between [ ] and the second tanker had arrived by [ ] No military deck cargo was observed on any of the merchant ships.

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**COMMERICAL SHIPPING****Shatt Al Arab**

45. (S/D) The Shatt Al Arab from 30-24-10N 048-10-30E to 30-18-00N 048-18-40E, including Abadan Port Facilities, Iran [ ] was imaged on [ ] Two freighters, two tankers, 23 coastal/small freighters, and three ARD-D were either at the port facility, in midriver, or aground.

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46. (S/D) One coastal/small freighter remained moored at the port facility. No additional battle damage was observed on [ ]

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47. (S/D) Nine coastal/small freighters were aground on the Iranian side of the river, approximately 1 nm southeast of the port facility during low tide. These vessels previously reported as DIW were riding low in the water during high tide.

**Iraq**

48. (S/D) No battle damage was observed at Umm Qasr Port Facilities on partial coverage of [ ]  
 [ ] One Osa PTG, four freighters, and one Leninskiy Komsomol-class merchant ship were moored at the quay.

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**Iran**

49. (S/D) Three medium cargo ships were berthed at Now Shahr Port Facilities [ ] on the Caspian Sea on [ ]

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**POL FACILITIES**

50. (S/D) Eleven Iraqi and five Iranian POL-related facilities were observed during the reporting period with new damage to one Iraqi facility (Figure 12 and Table 2).

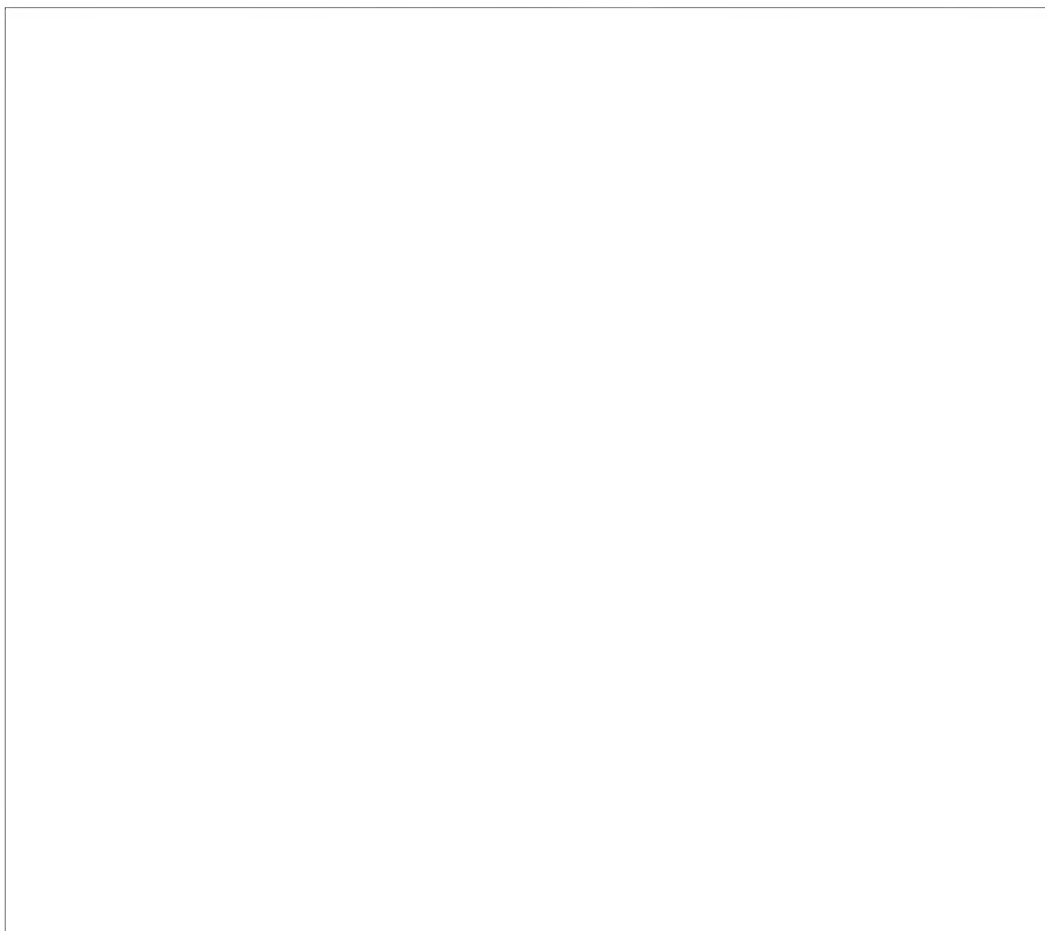
**Iraq**

51. (S/D) Damage was observed at Buzurgan Gas Oil Separation Plant and Oilfield Plant Complex on [ ] (Figure 13). Prior to the war, this facility had nine POL tanks with a total storage capacity of approximately 1,038,000 barrels. Three POL tanks with a total storage capacity of approximately 336,800 barrels have been destroyed. At most, this facility can now store approximately 701,200 barrels.

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52. (S/D) At Abadan Petroleum Product Storage and Pumping Station Transfer Iran 1, ten POL storage tanks with a capacity of 1,197,500 barrels, in addition to those previously reported, have been destroyed. These tanks were destroyed prior to [REDACTED]. Total capacity of this facility has now been reduced from the original 14,030,500-barrel storage capacity to no more than 9,660,500 barrels. Seven POL storage tanks were on fire, and pipeline fires were observed in three areas. No further damage was observed at Abadan Petroleum Refinery NIOC on [REDACTED] two storage tanks continued to burn.

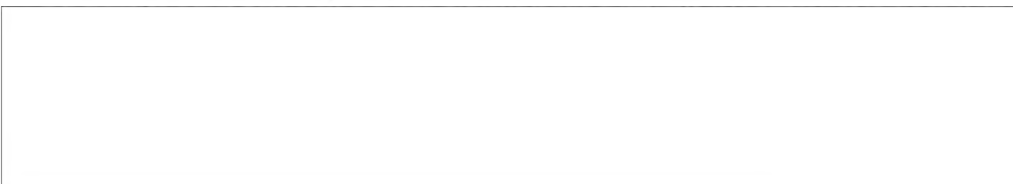
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**OTHER****Iraq**

53. (S/D) In Baghdad, an assortment of at least 80 pieces of captured Iranian equipment was observed on [REDACTED] (Figure 14). This equipment included M-60 tanks; M-113, BTR-60, and BMP APC; M109 SP guns; and possible M-42 SPAA and M-548 ammunition carriers. This equipment was observed on partial coverage in a parking lot on the northwest side of a stadium at 33-19-36N 044-26-10E.

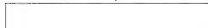
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**Iran**

55. (S/D) No unusual activity was observed in or around the US Embassy Tehran [REDACTED]

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**SECRET****South Yemen**

56. (S/D) The Soviet Skulptor Konenkov-class ro-ro ship, Agostino Neto, remained anchored in the outer harbor at Aden Port Facilities [ ] South Yemen, on [ ] (Figure 15). It arrived in Aden between [ ] Deck cargo included three TWIN PLATE (R-410) troposcatter sets, six ONE EYE/TWO SPOT radar sets, and 64 additional trucks. This unusually long stay in Aden may indicate that the ship was destined for Iraq and is now awaiting new orders.

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57. (S/D) Two Soviet arms carriers which departed Umm Qasr Port Facilities when the fighting broke out were also anchored in Aden. The Leninskiy Komsomol-class Fizik Lebedyev and the Slavyansk Mod A-class Stoletiy Pariskoye Kommuna were anchored in the outer harbor on [ ]

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### GLOSSARY OF ACRONYMS AND ABBREVIATIONS

*This glossary in its entirety is UNCLASSIFIED*

AA	Antiaircraft
AAA	Antiaircraft artillery
AD	Air defense
AORL	Small replenishment oiler
APB	Barracks ship
APC	Armored personnel carrier
AR	Repair ship
ARD-D	Floating drydock
ARD-T	Auxiliary repair dock
AW	Air warning
AWK	Water carrier
AX	Training ship
CP	Command post
DD	Destroyer
DDG	Guided missile destroyer
DIW	Dead in the water
FA	Field artillery
FFG	Guided missile frigate
GSP	Heavy amphibious ferry
LCM	Medium landing craft
LCU	Utility landing craft
LSM	Medium amphibious assault landing ship
LST	Amphibious vehicle landing ship
MRL	Multiple rocket launcher
MSC	Coastal minesweeper
MSF	Fleet minesweeper
MSI	Inshore minesweeper
NM	Nautical miles
PACV	Patrol air cushion vehicle
PB	Patrol boat
PBR	River/roadstead patrol boat
PCL	Small submarine chaser
PCS	Submarine chaser
PF	Patrol frigate
PGM	Motor gunboat
PMP	Heavy folding ponton bridge
POL	Petroleum, oil, and lubricant
PTG	Missile attack boat
RTP	Rail-to-road transfer point
RO/RO	Roll-on/roll-off
SAM	Surface-to-air missile
SP	Self-propelled
SPAA	Self-propelled antiaircraft
SPG	Self-propelled gun
SSM	Surface-to-surface missile
TEL	Transporter-erector-launcher
TMM	Truck-mounted bridge
VLCC	Very large crude carrier

**SECRET****REFERENCES****IMAGERY**

(S/D) All applicable satellite imagery acquired from [ ] was used in the preparation of this report.

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**MAPS OR CHARTS**

DoD. Joint Operations Graphics. Various Sheets (UNCLASSIFIED, Distribution Restricted)

**DOCUMENTS**

1. NPIC. Z-20156/80, IAR-0289/80, *Iraq/Iran Military Summary*, [ ] (S), Oct 80 (SECRET/WNIN-

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2. DIA. DDB-1100-IZ-80, *Ground Order of Battle: Iraq (U)*, Jan 80 (SECRET/

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(S) Comments and queries regarding this report are welcome. They may be directed to the South Asia/Arabia Branch, Third World Forces Division, Imagery Exploitation Group, NPIC, [ ]

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